

ICAO - Environmental Protection and Land Use at Airports for the NAM/CAR/SAM (Americas) Regions



Air Transport A Global Approach to Sustainability

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Air Transport

A Global Approach to Sustainability

- ✈ Sustainability
- ✈ Overview
- ✈ Noise Equation
- ✈ Emissions Equation
- ✈ Summary



Sustainable Development



✈ Calls upon civil aviation to meet the growing demand of travellers and shippers in a sustainable manner, balancing *economic progress, social development and environmental responsibility*



✈ Calls upon our society to recognise the decisive role of aviation in a sustainable economy



Air Transport Contribution



Key Contributor to economic progress, social development and global wealth

- ✧ 28 Million jobs world wide
- ✧ Transports 1.6 Billion passengers
- ✧ Generates \$1.4 trillion in annual gross product
- ✧ Unique global transport
- ✧ Unparalleled safety margins
- ✧ Market liberalisation



Environmental Performance



- ✈ Civil Aviation accounts for less than 3% of all CO₂
- ✈ Continuous Investment in “state of the art” technology
 - ✧ 65% more fuel efficient than in 1970
 - ✧ 20 db quieter than in 1970 (75% reduction in noise annoyance)
- ✈ Aviation uses per passenger kilometre
 - ✧ < 8% of land required for rail
 - ✧ < 1% of land dedicated to road

Environmental problems associated with aviation



- ✈ Aircraft Noise
- ✈ Impact of aircraft engine emissions, ground level and globally
- ✈ Local problems at airports
 - ✧ construction and expansion of airports and associated infrastructure
 - ✧ water and soil pollution
 - ✧ waste management



Noise Equation



✈ Continuous search for a *balance* between universal rules necessary to global aviation and airport based local requirements



✈ *Balance* ICAO responsibility, based on CAEP achievements

- ✧ New Chapter 4 certification standard
- ✧ Recertification process
- ✧ *Balanced* approach with **no global phaseout**



Balanced Approach



✈ Noise reduction at source, land use management, operational procedures, operational restrictions.



✈ *Land Use Management*

- ✧ prevent incompatible residential developments
- ✧ avoid loss of benefits by not allowing encroachment by residential development.
- ✧ Better share with neighbouring communities the **economic & social benefits of air transport**



ICAO Global Framework



- ✈ Airport by airport based approach
- ✈ Aircraft restrictions only as a very last option
- ✈ Preservation of aviation unique intercontinental network



Airport Based Approach



- Local Issue: each airport is different
- No regional “*noise sensitivity*”
- Operational measures to be tailored to local situations, harmonized internationally to prevent harmful unilateral measures



Way Ahead



✈ *Contracting States are invited to participate, through ICAO, in maintaining the emphasis on the balanced approach and to seek a clear definition of the conditions and processes that would be used to consider the application of local or regional operating restrictions in the context of a global framework*

Emissions Equation



- ✈ Environmental concern regarding emissions global impact and its effect on local air quality
- ✈ Kyoto Protocol (adopted Dec. 1997) requires Annex I countries reduce emissions by 5%
- ✈ ICAO tasked to assess policy options to reduce emissions taking into account the IPCC special report and the Kyoto Protocol.



ICAO on Emissions



✈ Work falls into 3 categories:

- ✧ Technology and standards, operational measures, and market based options

✈ CAEP/5 outcome:

- ✧ Further develop elements of an open emissions trading programme
- ✧ Continue work on voluntary mechanisms
- ✧ More work needed on the possible use of charges
- ✧ Circular on operational measures to minimise fuel consumption and reduce emissions



Market Based Options



✈ Open Emissions Trading

- ✧ Most cost-efficient approach
- ✧ Best long-term approach

✈ Voluntary Initiatives

- ✧ Preferred interim approach
- ✧ Slow but steady process
- ✧ IATA promotes proactive attitude:
 - beyond traditional compliance strategy
 - aim long-term, act short-term
 - corporate environmental reporting
 - industry good practices
 - industry guidance



✈ Emission Charges



In Summary



- ✈ *Direct link between improved environmental performance and sustainable growth*
- ✈ *Environmental performance of air transport has continually improved, and this remains the industry's firm goal.*



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Thank you !

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